2007

www.comfortstarusa.com

ComfortStar® plus

THE AFFORDABLE 13+SEER

- 13+SEER
- Environmentally Friendly
- Easy Installation
- 3 Speed Control
- Sleep Function

GLOBAL COOLING

Who we are

ComfortStar® plus

GLOBAL COOLING

Our manufacturing facilities maintain the highest quality and reliability standards with ISO9001 and ISO 14001.

All our products are or certified.

We provide solutions at a great value.

Our ductless system is simple, reliable and affordable.

Name you can trust...

We care about the environment

IAQ Indoor Air Quality

Standard active carbon electrostatic fiber filter in all our mini-splits

- Traps small dust particles
- Smoke
- Pet dander
- Eliminates odors

All for your well being…

New environmentally friendly R410A refrigerant in all heat pump units

- Reduces fossil fuel consumption and limits air pollution
- Prevents ozone layer depletion

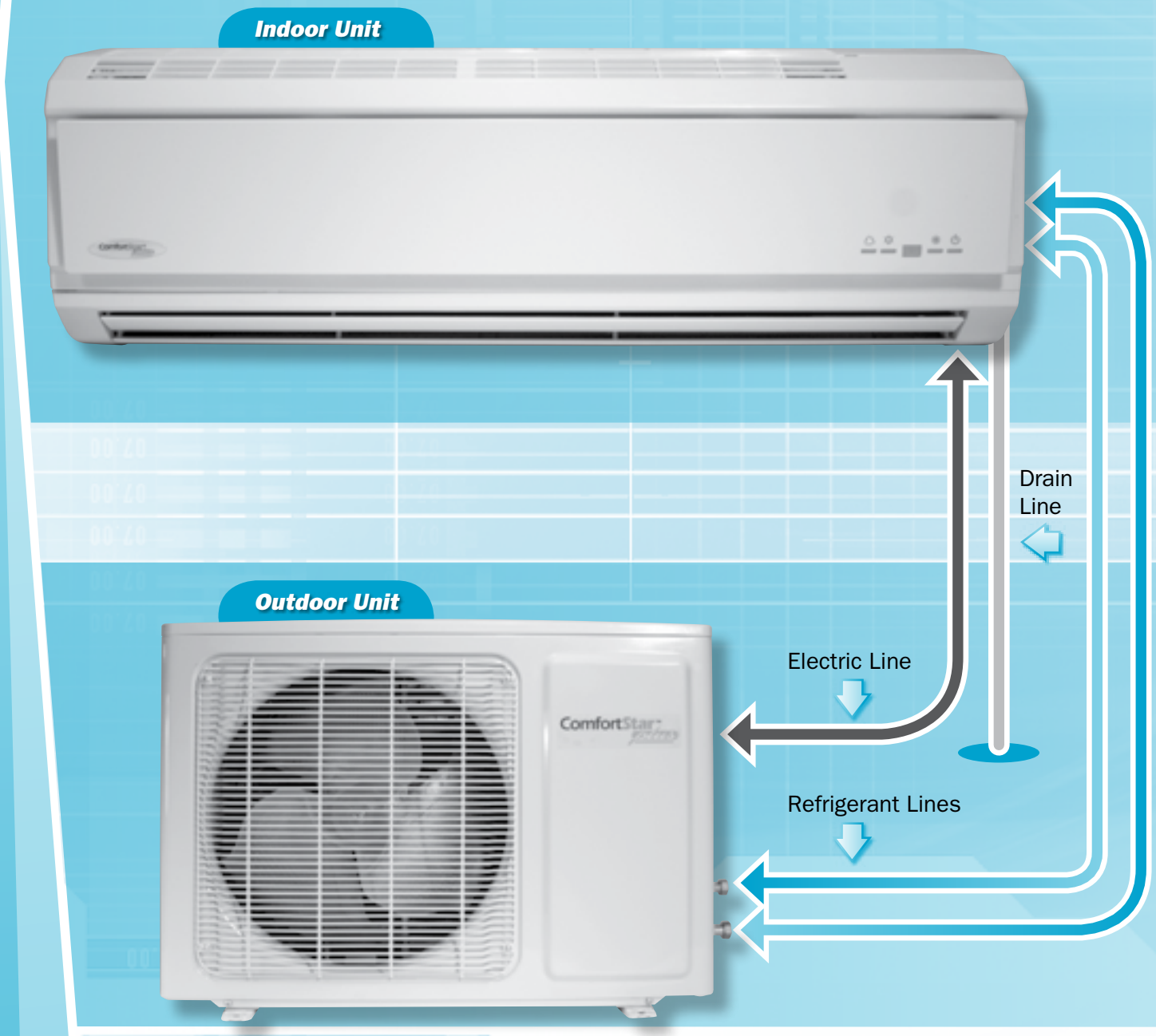
Why use ComfortStar Plus Ductless System?

- More than a 30% increase in energy efficiency in comparison to the 10 SEER unit, therefore reducing your utility bill and increasing savings.
- SEER value up to 14.0 in cooling only units and 16.0 in heat pump units, this represents up to a 23% above the 2006 “13 SEER” efficiency mandate.
- Environmentally friendly, reducing fossil fuel consumption and limiting air pollution. Heat pump units use environmentally friendly R410A refrigerant designed to prevent the depletion of the ozone layer.
- High efficiency compressor and coil, increases the unit size by only 3 inches from the 10 SEER units. Heat pump units use Inverter Technology to achieve even higher efficiency in the smaller sizes.
- Ductless systems provide less than 5% cooling loss which occurs in insulated refrigerant lines versus typical 40% loss through ducted systems.

- Single zone comfort for residential and light commercial applications: schools, nursing homes, apartments, computer and telephone rooms.
- Great for renovating or remodeling older homes.
- Quieter than a window unit, mini-splits are comprised of an indoor and an outdoor unit, which keeps noisy compressors and motors outdoors.
- Unlike window units, views will not be obstructed.
- Burglar free. Intruders cannot climb in through openings. The indoor unit is connected to the outdoor unit through a small 3 inch opening on the wall.
- Looks beautiful on the wall with the comfort of a remote control.
- Same power source from indoor unit to outdoor unit.

Easy Installation

1. ***Mount indoor and outdoor units.***
2. ***Connect the refrigerant lines.***
3. ***Make a few electrical connections.***



NOM-003-SCFI-2000
NOM-024-SCFI-1996

Durability

The main cause for corrosion in air conditioning equipment is due to the reaction of two metals: Copper and Aluminum.

ComfortStar Plus 13 SEER has Gold Fin Protection

Gold Fin consists of two protective layers: an anti-corrosive coating and a waterproof membrane that prevents humidity. These ensure the durability of the equipment and maximizes energy efficiency.

What is a Heat Pump?

A Heat Pump System can provide both cooling and heating to your home within one system. During the heating season, heat pump moves heat from the cool outdoor into your warm house; during the cooling season, heat pump moves heat from your cool house into the warm outdoors. Heat pumps offer an energy-efficient alternative to a furnace, because they move heat rather than generate heat. Our ComfortStar Plus Series Heat Pumps can provide up to 3.1 times the amount of heat compared to a same size electric heater.

Because our Heat Pump units use the latest ***INVERTER*** compressors all our units exceed industry standards.

What is Inverter Technology?

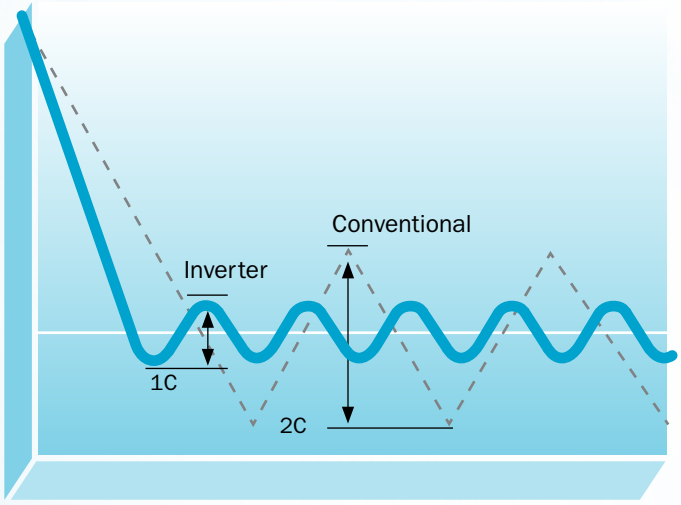
At the heart of ComfortStar Plus Series Heat Pump system is the innovative inverter technology. The Inverter Controlled Compressor operates by changing the frequency from 60Hz to a varying range (20Hz to 125 Hz). The inverter will control the compressor to modulate on a high frequency and rapidly reach desired temperature. When the desired temperature has been achieved, the inverter will control the compressor to run on a lower frequency to maintain precise temperature and consume less energy.

ComfortStar Plus 13+SEER

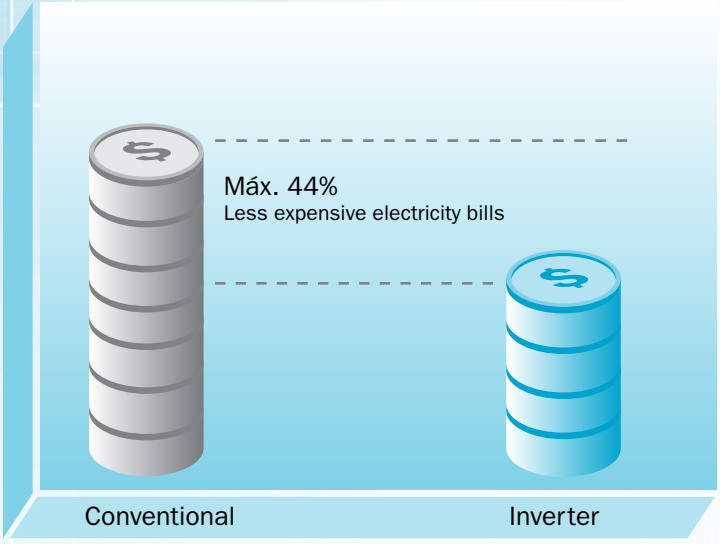
Optimum Comfort

Inverter Controlled Compressor maintains precise control of room temperature and creates a more comfortable environment. In conventional ON/OFF compressors, the compressor turns OFF once the set temperature is reached, and turns back ON after the temperature rises.

The time it takes for the unit to switch on and off causes the room temperature to greatly fluctuate. With the Inverter Controlled Compressor, the power reduces once the desired temperature has been reached, but continues operating at a reduced state to maintain a stable room temperature with minimal fluctuation.



Efficient Energy Use



With low-frequency operation, the system reduces the energy waste and provides the best efficiency.

Standard Features in all ComfortStar Plus

Active carbon electrostatic fiber filter:	*Electrostatic fiber filter traps small dust particles, smoke and pet dander to prevent allergies. Active carbon filter eliminates odors.*
Auto restart and memory function:	*A power failure will not cause any setting to be lost, thus eliminating the need for re-programming.*
High Efficiency:	*With a high efficiency compressor and the most optimized heat exchange system, the unit achieves higher efficiency and contributes to further energy savings.*
Golden fin:	*Coated with anti corrosion golden layer on the coils to improve hydrophilic performance.*
Swing function:	*Allows the louver of the indoor unit to enhance the air distribution throughout the room.*
24-hour timer:	*Allows the unit to start and stop as desired.*
Sleep Function:	*Adjusts the temperature while sleeping to make the room more comfortable.*
3 Speed control:	*Will change the fan speed to 3 different settings to accommodate your needs.*
Dry mode:	*Helps to control humidity levels when cooling may not be needed.*
Auto mode:	*The system starts in high fan speed and automatically adjusts downward as room reaches set temperatures.*
Error indicating light:	*Allows you to identify the problems within the system quickly and accurately.*
Overload Protection:	*Internal overload protector ensures compressor is running safely.*
Anti-freezing Protection:	*Pre-programmed control logic keeps coils from freezing.*
Low ambient control:	*By installing a head pressure control (not supplied), the unit can work down to zero degrees.*

ComfortStar Plus Series *has it all...*

R22 - Cooling Unit Specifications

MODEL		CCH09CA-13	CCH012CA-13	CCH012CD-13	CCH018CD-13
Feature		Cooling Only	Cooling Only	Cooling	Cooling
Power Supply		115/1/60	115/1/60	230/1/60	230/1/60
Rated Cooling Capacity	Btu/h	9900	11700	11200	18500
SEER for Cooling		14.1	13.6	14.1	13.5
Refrigerant/Charge (Ounce)		R22/35	R22/46	R22/44	R22/67
Rated Current A	Cooling	7.7	8.9	4.2	6.4
LRA of Compressor		49	53	26	39
Air Circulation		427	388	492	706
Noise Level		51	51	51	51
Indoor Unit					
Fan Type		Cross Flow Fan	Cross Flow Fan	Cross Flow Fan	Cross Flow Fan
Fan Speed (RPM)		1550/1450 /1350	1550/1450 /1350	1550/1450 /1350	1410/1310 /1260
Fan Motor Output (W)		20	20	20	35
Outdoor Unit					
Fan Type		Axial Fan	Axial Fan	Axial Fan	Axial Fan
Fan Speed (RPM)		885	885	900	780
Fan Motor Output (W)		48	48	48	60
Compresor Type		Rotary	Rotary	Rotary	Rotary
Other					
Filter		Active Carbon	Active Carbon	Active Carbon	Active Carbon
24 Hours Timer		YES	YES	YES	YES
Auto Restart		YES	YES	YES	YES
3 Speed Control		YES	YES	YES	YES
Auto Swing Louver		YES	YES	YES	YES
Suitable Area (Sq.Ft.)		330-495	390-585	400-600	600-900
Outdoor IP Class		IP24	IP24	IP24	IP24
Lineset	Gas	1/2”	1/2”	1/2”	5/8”
	Liquid	1/4”	1/4”	1/4”	3/8”
Body Dimension (Inches)	Indoor	35.71 x 11.4 x 7.68	35.71 x 11.42 x 7.68	35.71 x 11.42 x 7.68	46.38 x 12.84 x 8.94
	Outdoor	33.38 x 21.27 x 12.6	33.38 x 21.27 x 12.6	33.38 x 21.27 x 12.6	37.0 x 33.07 x 16.22

NOM-003-SCFI-2000
NOM-024-SCFI-1996

GLOBAL COOLING

R410A - Cooling & Heating Unit Specifications

MODEL		CHH09CA-13	CHH012CA-13	CHH012CD-13	CHH018CD-13	CCH024CD-13
Feature		Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump
Power Supply		115/1/60	115/1/60	230/1/60	230/1/60	230/1/60
Rated Cooling Capacity	Btu/h	10400	13900	13200	18400	23200
Rated Heating Capacity	Btu/h	12800	14000	15900	20000	24500
SEER for Cooling		**16**	**16**	**15**	**13.2**	**14**
HSPF for Heating		8	7.7	7.7	7.7	8.4
Refrigerant/ Charge (Ounce)		R410A/42	R410A/44	R410A/44	R410A/62	R410A/84
Rated Current A	Cooling	6.4	9.5	7	5.98	9.8
	Heating	8	11	7.2	8.23	9.95
LRA of Compressor		33	33	33	27	40
Air Circulation		450	500	500	900	1050
Noise Level		51	51	51	51	55
Indoor Unit						
Fan Type		Cross Flow Fan	Cross Flow Fan	Cross Flow Fan	Cross Flow Fan	Cross Flow Fan
Fan Speed (RPM)		1200/1060 /860	1350/1200 /1100	1250/1100 /1050	1350/1300 /1250	1400/1300 /1250
Fan Motor Output (W)		14	20	20	21	35
Outdoor Unit						
Fan Type		Axial Fan	Axial Fan	Axial Fan	Axial Fan	Axial Fan
Fan Speed (RPM)		830	830	830	780/620	840/740
Fan Motor Output (W)		30	30	30	60	68
Compresor Type		Inverter	Inverter	Inverter	Inverter	Inverter
Other						
Filter		Active Carbon	Active Carbon	Active Carbon	Active Carbon	Active Carbon
24 Hours Timer		YES	YES	YES	YES	YES
Auto Restart		YES	YES	YES	YES	YES
3 Speed Control		YES	YES	YES	YES	YES
Auto Swing Louver		YES	YES	YES	YES	YES
Suitable Area (Sq.Ft.)		346-520	463-695	440-660	613-920	773-1160
Outdoor IP Class		IP24	IP24	IP24	IP24	IP24
Line Set	Gas	1/2”	1/2”	1/2”	5/8”	5/8”
	Liquid	1/4”	1/4”	1/4”	3/8”	3/8”
Body Dimension (Inches)	Indoor	32.67 x 11.22 x 7.44	32.67 x 11.22 x 7.44	32.67 x 11.22 x 7.44	40.15 x 12.2 x 8.94	46.38 x 12.83 x 8.94
	Outdoor	33.38 x 21.27 x 12.6	33.38 x 21.27 x 12.66	33.38 x 21.27 x 12.66	37.4 x 26.93 x 13.39	37.4 x 33.07 x 16.22

NOM-003-SCFI-2000
NOM-024-SCFI-1996

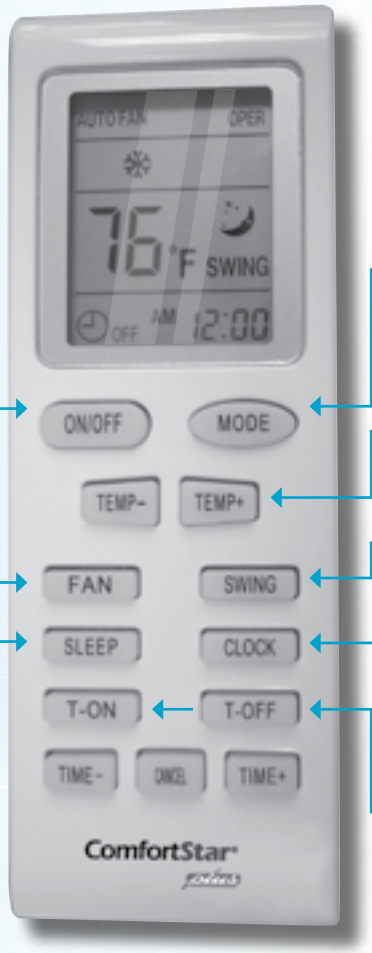
Remote control specifications

Remote control for Heat Pump

Turns unit ON/OFF.

3-Speed indoor fan; Auto mode allows the unit to cool quickly.

To prevent excessive cooling during sleep, when the sleep function is set, the room temperature setting will automatically rise 2°F every hour. When the temperature has increased a total of 4°F, the unit will remain at this setting.



Select desired modes from Auto, Cool, Dry, Fan and Heat.

Room temperature can be adjusted with the interval of 1°F.

Redirects air flow automatically with up and down motion.

Local time setting and display.

Allows you to program the remote controller; the system will automatically turn ON/OFF at the desired time.

Actual size

Remote control specifications

Remote control for Cooling only

Redirects air flow automatically with up and down motion.

3-Speed control to change fan speed.

Room temperature can be adjusted from 61°F to 86°F.

Select desired modes from Auto, Cool, Dry and Fan.

Turns system ON/OFF.

Actual size
Outside View

Remote control specifications

Remote control for Cooling only

To prevent excessive cooling during sleep, when the sleep function is set, the room temperature setting will increase automatically 2°F every hour. When the set temperature has been increased a total of 4°F, the unit will maintain this setting.

24 hour timer allows you to set the desired time for unit to automatically turn OFF within a range of 0.5h to 24h with intervals of 0.5h.

24 hour timer allows you to set the desired time for unit to automatically turn ON within a range of 0.5h to 24h with intervals of 0.5h.

Actual size
Inside View

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plus

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Heat Pump Disclaimer:
Heat Pump applications may not be suitable for all climates. Please consult installation manual.

Certifications:

NOM-003-SCFI-2000
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WARRANTY

5 Years compressor

1 Year parts

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